ELSEVIER

Surface Science 414 (1998) 435–437

surface science

Author index

Abrams, N.E., see Jones 414 (1998) 396
Ali, T., A.V. Walker, B. Klötzer and D.A. King, A molecular beam study of the H_2-induced lifting of the Ir{100}-(1 × 5) reconstruction 414 (1998) 304
Altshuler, E.S., D.L. Mills and R.B. Gerber, Solid and liquid-like phases of chemisorbed hydrogen monolayers on bcc metal surfaces: structure, dynamics and order–disorder transition 414 (1998) 1
Asao, K., see Ohtani 414 (1998) 85
Asari, E., see Souda 414 (1998) 77

Barbier, A., R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt_{1-x}–Co_x)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170
Behrend, J., see Wassermeier 414 (1998) 298
Belkhou, R., see Barbier 414 (1998) 170
Bennett, S.L., see de Vries 414 (1998) 159
Bennich, P., see Puglia 414 (1998) 118
Berenbak, B., D.A. Butler, B. Riedmüller, D.C. Papageorgopoulos, S. Stolte and A.W. Kleyn, Sticking probability measurement in a reactive system 414 (1998) 271
Biener, J., see Horn 414 (1998) 290
Biham, O., see Shimoni 414 (1998) L925
Blanc, M., K. Kuhnke, V. Marsico and K. Kern, Probing step decoration by grazing-incidence helium scattering 414 (1998) L964
Bonnell, D.A., see Brown 414 (1998) 341
Booth, N.A., see Jones 414 (1998) 396
Bouilliard, J.C. and M.P. Sotto, On the relations between the surface structures and the stability of complex faces 414 (1998) 131
Brown, K.R. and D.A. Bonnell, Cation segregation to yttrium aluminum garnet (111) surfaces 414 (1998) 341
Brown, W.A., see Sharma 414 (1998) 68
Brühwiler, P.A., see Puglia 414 (1998) 118
Bunk, O., see van Gemmeren 414 (1998) 254
Busse, H., see Voss 414 (1998) 330
Butler, D.A., see Berenbak 414 (1998) 271
Butterfield, M.T., see Jones 414 (1998) 396

Canepa, M., see Ustaze 414 (1998) L938
Carrière, B., see Barbier 414 (1998) 170
Chae, K.H., see Park 414 (1998) L945
Chan, A.C.-T. and G.-C. Wang, Roughness evolution of Si(111) by low-energy ion bombardment 414 (1998) 17
Chen, J.G., see J. Eng, Jr.. 414 (1998) 374
Chen, L.-H., see Lee 414 (1998) 363
Cho, W.S., see Park 414 (1998) L945
Choi, D.S., see Park 414 (1998) L945
Chou, W.-S., see Lee 414 (1998) 363
Cowie, B.C.C., see Jones 414 (1998) 396
Crapper, M.D., see Jones 414 (1998) 396

Da Costa, V., see Barbier 414 (1998) 170
Däweritz, L., see Wassermeier 414 (1998) 298
De Nijs, J., see Ilge 414 (1998) 279
De Vries, S.A., W.J. Huisman, P. Goedtkindt, M.J. Zwanenburg, S.L. Bennett, I.K. Robinson and E. Vlieg, Surface atomic structure of the ($\sqrt{3} \times \sqrt{3}$)R30°-Sb reconstructions of Ag(111) and Cu(111) 414 (1998) 159
Deville, J.P., see Barbier 414 (1998) 170
Diebold, U., see Li 414 (1998) L951
Doshita, H., see Ohtani 414 (1998) 85

Efremenko, I. and M. Sheintuch, Quantum chemical study of small palladium clusters 414 (1998) 148
Eng, Jr., J. and J.G. Chen, Reaction pathways of cis- and trans-2-butene on Mo(110) and C/Mo(110): selective activation of α and β C–H bonds 414 (1998) 374
Esaulov, V.A., see Ustaze 414 (1998) L938

Falkenberg, G., see van Gemmeren 414 (1998) 254
Feidenhans'l, R., see van Gemmeren 414 (1998) 254
Feller, J., see Plass 414 (1998) 26
Fink, R., see Stahl 414 (1998) 423
Friend, C.M., see Queeney 414 (1998) L957
Fritzsche, H., see Nawrath 414 (1998) 209

Gador, D., see Stahl 414 (1998) 423
Gajdardziska-Josifovska, M., see Plass 414 (1998) 26
Geerligs, L.J., see Ilge 414 (1998) 279
Gerber, R.B., see Altshuler 414 (1998) 1
Giergiel, J., see Malzbender 414 (1998) 187
Goedtkindt, P., see de Vries 414 (1998) 159
Goldmann, A., R. Matzdorf and F. Theilmann, Experimental hot-electron and photohole lifetimes at metal surfaces – what do we know? 414 (1998) L932

Gorodetskii, V.V., see Smirnov 414 (1998) 409
Guillemot, L., see Ustaze 414 (1998) L938
Guillot, C., see Barbier 414 (1998) 170

Haak, H., see Paggel 414 (1998) 221
Haight, R., see Rettenberger 414 (1998) 197
Hammer, B., see Mortensen 414 (1998) 315
Hasselström, J., see Puglia 414 (1998) 118
Hebenstreit, W., see Li 414 (1998) L951
Heiz, U., see Vanolli 414 (1998) 261
Horn, A., J. Biener and J. Küppers, A dimerization reaction induced by hydrogen atoms: from $B(CH_3)_3$ adsorbed on C/Pt(100) to $B_2H_2(CH_3)_4$ 414 (1998) 290
Horn, K., see Paggel 414 (1998) 221
Huisman, W.J., see de Vries 414 (1998) 159

Ilge, B., G. Palasantzas, J. de Nijs and L.J. Geerligs, The temperature evolution of ultra-thin films in solid-phase reaction of Co with Si(111) studied by scanning tunneling microscopy 414 (1998) 279
Imanishi, A., see Terada 414 (1998) 107

Jackson, G.J., see Jones 414 (1998) 396
Jeong, K., see Park 414 (1998) L945
Johnson, R.L., see van Gemmeren 414 (1998) 254
Jones, R.G., N.E. Abrams, G.J. Jackson, N.A. Booth, M.T. Butterfield, B.C.C. Cowie, D.P. Woodruff and M.D. Crapper, The structure of PF_3 adsorbed on Cu(111) 414 (1998) 396
Jönsson, L., see Rickardsson 414 (1998) 389

Kamada, M., see Ohtani 414 (1998) 85
Kawanowa, H., see Souda 414 (1998) 77
Kellermann, S., see Wassermeier 414 (1998) 298
Kern, K., see Blanc 414 (1998) L964
Kiguchi, M., see Terada 414 (1998) 107
Kim, J.Y., see Park 414 (1998) L945
Kim, Y.W., see Park 414 (1998) L945
King, D.A., see Sharma 414 (1998) 68
King, D.A., see Ali 414 (1998) 304
Kirschner, J., see Malzbender 414 (1998) 187
Kitajima, Y., see Terada 414 (1998) 107
Kleyn, A.W., see Berenbak 414 (1998) 271
Klötzer, B., see Ali 414 (1998) 304
Koel, B.E., see Voss 414 (1998) 330
Kohama, M., see Ohtani 414 (1998) 85
Kuhnke, K., see Blanc 414 (1998) L964
Küppers, J., see Horn 414 (1998) 290

Lacombe, S., see Ustaze 414 (1998) L938
Lapinskas, S., E.E. Tornau, V.E. Zubkus and A. Rosengren, Diffusion of adatoms. Comparison of the path probability and Monte Carlo method for H/Fe(110) 414 (1998) 44
Lee, Y.-L., W.-S. Chou and L.-H. Chen, The adsorption and nucleation of water vapor on an insoluble spherical solid particle 414 (1998) 363
Li, M., W. Hebenstreit and U. Diebold, Oxygen-induced restructuring of the rutile $TiO_2(110)(1 \times 1)$ surface 414 (1998) L951
Li, Z.Y., see Puglia 414 (1998) 118
Lottermoser, L., see van Gemmeren 414 (1998) 254
Lozovik, Yu.E. and A.M. Popov, Theory, simulation and nanotechnological applications of adsorption on a surface with defects 414 (1998) 57

Maletta, H., see Nawrath 414 (1998) 209
Malzbender, J., M. Przybylski, J. Giergiel and J. Kirschner, Epitaxial growth of Fe on Mo(110) studied by scanning tunneling microscopy 414 (1998) 187
Marsico, V., see Blanc 414 (1998) L964
Martel, R., see Rochefort 414 (1998) 38
Mårtensson, N., see Puglia 414 (1998) 118
Matzdorf, R., see Goldmann 414 (1998) L932
McBreen, P.H., see Rochefort 414 (1998) 38
Millo, O., see Shimoni 414 (1998) L925
Mills, D.L., see Altshuler 414 (1998) 1
Mochán, W.L., see Pérez-Rodríguez 414 (1998) 93
Mortensen, J.J., B. Hammer and J.K. Nørskov, A theoretical study of adsorbate–adsorbate interactions on Ru(0001) 414 (1998) 315

Namiki, A., see Ohtani 414 (1998) 85
Nawrath, T., H. Fritzsche and H. Maletta, Growth modes of vanadium and iron on V(110) single crystals 414 (1998) 209
Neuhold, G., see Paggel 414 (1998) 221
Nielsen, M., see van Gemmeren 414 (1998) 254
Nilsson, A., see Puglia 414 (1998) 118
Nørskov, J.K., see Mortensen 414 (1998) 315
Nyberg, C., see Rickardsson 414 (1998) 389

Ohresser, P., see Barbier 414 (1998) 170
Ohta, T., see Terada 414 (1998) 107
Ohtani, K., H. Doshita, M. Kohama, Y. Takamine, K. Asao, S. Tanaka, M. Kamada and A. Namiki, Physisorption lifetimes of Cl_2 on the Si(100) surfaces adsorbed with Cs and Cl 414 (1998) 85
Okamoto, Y., see Terada 414 (1998) 107
Otani, S., see Souda 414 (1998) 77

Paggel, J.J., G. Neuhold, H. Haak and K. Horn, Growth morphology and electronic structure of Na films on Si(111)-(7×7) and Si(111)-Na(3×1) 414 (1998) 221
Palasantzas, G., see Ilge 414 (1998) 279
Papageorgopoulos, D.C., see Berenbak 414 (1998) 271
Park, N.G., Y.W. Kim, W.S. Cho, J.Y. Kim, D.S. Choi, K. Jeong, K.H. Chae and C.N. Whang, Atomic structure of two-dimensional Ag layer grown on Si(001)-(2×1) at room temperature 414 (1998) L945
Pérez-Rodríguez, F., J. Récamier and W.L. Mochán, Direct photon–phonon coupling at (001) surfaces of zinc-blende structure crystals 414 (1998) 93

Plass, R., J. Feller and M. Gajdardziska-Josifovska, Morphology of MgO(111) surfaces: artifacts associated with the faceting of polar oxide surfaces into neutral surfaces 414 (1998) 26
Ploog, K., see Wassermeier 414 (1998) 298
Popov, A.M., see Lozovik 414 (1998) 57
Przybylski, M., see Malzbender 414 (1998) 187
Puglia, C., P. Bennich, J. Hasselström, C. Ribbing, P.A. Brühwiler, A. Nilsson, Z.Y. Li and N. Mårtensson, Core level spectroscopy study of N_2 adsorbed on (2×2)K/graphite 414 (1998) 118

Queeney, K.T. and C.M. Friend, Conversion of nitrosyls to dinitrosyls during NO adsorption on oxygen-modified Mo(110) 414 (1998) L957

Ranke, W. and W. Weiss, Photoemission of ethylbenzene adsorbed on Pt(111) and on epitaxial films of FeO(111) and Fe_3O_4(111): electronic structure and isosteric heats of adsorption 414 (1998) 236
Récamier, J., see Pérez-Rodríguez 414 (1998) 93
Rettenberger, A. and R. Haight, Electron spectroscopy and dynamics on the Ge(111):As 1×1 surface 414 (1998) 197
Ribbing, C., see Puglia 414 (1998) 118
Rickardsson, I., L. Jönsson and C. Nyberg, Influence of surface topology on NO adsorption: NO on Ni(100) and Ni(510) 414 (1998) 389
Riedmüller, B., see Berenbak 414 (1998) 271
Robinson, I.K., see de Vries 414 (1998) 159
Rochefort, A., R. Martel and P.H. McBreen, Interaction of bromocyclopropane with Cu(110) 414 (1998) 38
Rosengren, A., see Lapinskas 414 (1998) 44

Sakano, M., see Terada 414 (1998) 107
Schneider, W.-D., see Vanolli 414 (1998) 261
Sharma, R.K., W.A. Brown and D.A. King, The adsorption of CO on Pt{110} over the temperature range from 90 to 300 K studied by RAIRS 414 (1998) 68
Sheintuch, M., see Efremenko 414 (1998) 148
Shek, M.L., Observations regarding a c(4×4)C–Si(100) surface 414 (1998) 353
Shimoni, N., O. Biham and O. Millo, Current-induced surface dislocations on thin gold films 414 (1998) L925
Smirnov, M.Yu., D. Zemlyanov, V.V. Gorodetskii and E.I. Vovk, Formation of mixed $(NO_{ads} + CO_{ads})/(1 \times 1)$ islands on the Pt(100)-(hex) surface 414 (1998) 409
Sotto, M.P., see Bouilliard 414 (1998) 131
Souda, R., E. Asari, H. Kawanowa, S. Otani and T. Tanaka, Low energy He^+ ion scattering from HfB_2(0001), TaB_2(0001), WB_2(0001), YB_4(001), and YB_{66}(001) surfaces 414 (1998) 77
Soukopp, A., see Stahl 414 (1998) 423
Stahl, U., D. Gador, A. Soukopp, R. Fink and E. Umbach, Coverage-dependent superstructures in chemisorbed NTCDA monolayers: a combined LEED and STM study 414 (1998) 423
Stolte, S., see Berenbak 414 (1998) 271

Takamine, Y., see Ohtani 414 (1998) 85
Tanaka, S., see Ohtani 414 (1998) 85
Tanaka, T., see Souda 414 (1998) 77
Terada, S., T. Yokoyama, M. Sakano, A. Imanishi, Y. Kitajima, M. Kiguchi, Y. Okamoto and T. Ohta, Thiophene adsorption on Pd(111) and Pd(100) surfaces studied by total-reflection S K-edge X-ray absorption fine structure spectroscopy 414 (1998) 107
Theilmann, F., see Goldmann 414 (1998) L932
Tornau, E.E., see Lapinskas 414 (1998) 44

Umbach, E., see Stahl 414 (1998) 423
Ustaze, S., S. Lacombe, L. Guillemot, V.A. Esaulov and M. Canepa, Electron transfer on oxygen-covered Ag(110) and Al(111) surfaces: work function versus local electronic effects 414 (1998) L938

Van Gemmeren, T., L. Lottermoser, G. Falkenberg, O. Bunk, R.L. Johnson, R. Feidenhans'l and M. Nielsen, Growth morphology and structure of bismuth thin films on GaSb(110) 414 (1998) 254
Vanolli, F., U. Heiz and W.-D. Schneider, Photochemistry of $Mn_2(CO)_{10}$ deposited on MgO thin films 414 (1998) 261
Vlieg, E., see de Vries 414 (1998) 159
Voss, M.R., H. Busse and B.E. Koel, Adsorption of thermal D atoms on Sn/Pt(111) surface alloys 414 (1998) 330
Vovk, E.I., see Smirnov 414 (1998) 409

Walker, A.V., see Ali 414 (1998) 304
Wang, G.-C., see Chan 414 (1998) 17
Wassermeier, M., S. Kellermann, J. Behrend, L. Däweritz and K. Ploog, Submonolayer Si deposition at low temperatures on the GaAs(001)-(2×4) surface studied by scanning tunneling microscopy 414 (1998) 298
Weiss, W., see Ranke 414 (1998) 236
Whang, C.N., see Park 414 (1998) L945
Woodruff, D.P., see Jones 414 (1998) 396

Yokoyama, T., see Terada 414 (1998) 107

Zemlyanov, D., see Smirnov 414 (1998) 409
Zubkus, V.E., see Lapinskas 414 (1998) 44
Zwanenburg, M.J., see de Vries 414 (1998) 159

ELSEVIER

Surface Science 414 (1998) 438–443

surface science

Subject index

THEORETICAL METHODS, MODELS AND TECHNIQUES

Construction and use of effective interatomic interactions

F. Pérez-Rodríguez, J. Récamier and W.L. Mochán, Direct photon–phonon coupling at (001) surfaces of zinc-blende structure crystals 414 (1998) 93

Density functional calculations

A. Rochefort, R. Martel and P.H. McBreen, Interaction of bromocyclopropane with Cu(110) 414 (1998) 38

J.J. Mortensen, B. Hammer and J.K. Nørskov, A theoretical study of adsorbate–adsorbate interactions on Ru(0001) 414 (1998) 315

Models of surface kinetics

Y.-L. Lee, W.-S. Chou and L.-H. Chen, The adsorption and nucleation of water vapor on an insoluble spherical solid particle 414 (1998) 363

Molecular dynamics

E.S. Altshuler, D.L. Mills and R.B. Gerber, Solid and liquid-like phases of chemisorbed hydrogen monolayers on bcc metal surfaces: structure, dynamics and order–disorder transition 414 (1998) 1

Yu.E. Lozovik and A.M. Popov, Theory, simulation and nanotechnological applications of adsorption on a surface with defects 414 (1998) 57

Semi-empirical models and model calculations

I. Efremenko and M. Sheintuch, Quantum chemical study of small palladium clusters 414 (1998) 148

EXPERIMENTAL SAMPLE PREPARATION AND CHARACTERIZATION METHODS

Adsorption isotherms

Y.-L. Lee, W.-S. Chou and L.-H. Chen, The adsorption and nucleation of water vapor on an insoluble spherical solid particle 414 (1998) 363

Atom–solid scattering and diffraction – elastic

M. Blanc, K. Kuhnke, V. Marsico and K. Kern, Probing step decoration by grazing-incidence helium scattering 414 (1998) L964

Atomic force microscopy

R. Plass, J. Feller and M. Gajdardziska-Josifovska, Morphology of MgO(111) surfaces: artifacts associated with the faceting of polar oxide surfaces into neutral surfaces 414 (1998) 26

Auger electron spectroscopy

A. Barbier, R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt$_{1-x}$–Co$_x$)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170

T. Nawrath, H. Fritzsche and H. Maletta, Growth modes of vanadium and iron on V(110) single crystals 414 (1998) 209

K.R. Brown and D.A. Bonnell, Cation segregation to yttrium aluminum garnet (111) surfaces 414 (1998) 341

Electron emission measurements

Photoemission (total yield)

A. Goldmann, R. Matzdorf and F. Theilmann, Experimental hot-electron and photohole lifetimes at metal surfaces – what do we know? 414 (1998) L932

K. Ohtani, H. Doshita, M. Kohama, Y. Takamine, K. Asao, S. Tanaka, M. Kamada and A. Namiki, Physisorption lifetimes of Cl_2 on the Si(100) surfaces adsorbed with Cs and Cl 414 (1998) 85

Electron energy loss spectroscopy

A. Rochefort, R. Martel and P.H. McBreen, Interaction of bromocyclopropane with Cu(110) 414 (1998) 38

A. Barbier, R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt$_{1-x}$–Co$_x$)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170

A. Horn, J. Biener and J. Küppers, A dimerization reaction induced by hydrogen atoms: from $B(CH_3)_3$ adsorbed on C/Pt(100) to $B_2H_2(CH_3)_4$ 414 (1998) 290

K.T. Queeney and C.M. Friend, Conversion of nitrosyls to dinitrosyls during NO adsorption on oxygen-modified Mo(110) 414 (1998) L957

J. Eng, Jr. and J.G. Chen, Reaction pathways of cis- and trans-2-butene on Mo(110) and C/Mo(110): selective activation of α and β C–H bonds 414 (1998) 374

I. Rickardsson, L. Jönsson and C. Nyberg, Influence of surface topology on NO adsorption: NO on Ni(100) and Ni(510) 414 (1998) 389

Electron–solid diffraction

J.C. Bouilliard and M.P. Sotto, On the relations between the surface structures and the stability of complex faces 414 (1998) 131

Low energy electron diffraction (LEED)

J.C. Bouilliard and M.P. Sotto, On the relations between the surface structures and the stability of complex faces 414 (1998) 131
A. Barbier, R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt$_{1-x}$–Co$_x$)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170
T. Nawrath, H. Fritzsche and H. Maletta, Growth modes of vanadium and iron on V(110) single crystals 414 (1998) 209
J.J. Paggel, G. Neuhold, H. Haak and K. Horn, Growth morphology and electronic structure of Na films on Si(111)-(7 × 7) and Si(111)-Na(3 × 1) 414 (1998) 221
M.L. Shek, Observations regarding a c(4 × 4)C–Si(100) surface 414 (1998) 353
U. Stahl, D. Gador, A. Soukopp, R. Fink and E. Umbach, Coverage-dependent superstructures in chemisorbed NTCDA monolayers: a combined LEED and STM study 414 (1998) 423

Reflection high-energy electron diffraction (RHEED)

M. Wassermeier, S. Kellermann, J. Behrend, L. Däweritz and K. Ploog, Submonolayer Si deposition at low temperatures on the GaAs(001)-(2 × 4) surface studied by scanning tunneling microscopy 414 (1998) 298

Ion etching

A.C.-T. Chan and G.-C. Wang, Roughness evolution of Si(111) by low-energy ion bombardment 414 (1998) 17

Ion scattering spectroscopy

Low energy ion scattering (LEIS)

N.G. Park, Y.W. Kim, W.S. Cho, J.Y. Kim, D.S. Choi, K. Jeong, K.H. Chae and C.N. Whang, Atomic structure of two-dimensional Ag layer grown on Si(001)-(2 × 1) at room temperature 414 (1998) L945
R. Souda, E. Asari, H. Kawanowa, S. Otani and T. Tanaka, Low energy He^+ ion scattering from HfB_2(0001), TaB_2(0001), WB_2(0001), YB_4(001), and YB_{66}(001) surfaces 414 (1998) 77

Isotopic exchange/traces

K.T. Queeney and C.M. Friend, Conversion of nitrosyls to dinitrosyls during NO adsorption on oxygen-modified Mo(110) 414 (1998) L957

Molecular beam epitaxy

M. Wassermeier, S. Kellermann, J. Behrend, L. Däweritz and K. Ploog, Submonolayer Si deposition at low temperatures on the GaAs(001)-(2 × 4) surface studied by scanning tunneling microscopy 414 (1998) 298

Molecule–solid reactions

B. Berenbak, D.A. Butler, B. Riedmüller, D.C. Papageorgopoulos, S. Stolte and A.W. Kleyn, Sticking probability measurement in a reactive system 414 (1998) 271
M.R. Voss, H. Busse and B.E. Koel, Adsorption of thermal D atoms on Sn/Pt(111) surface alloys 414 (1998) 330

Molecule–solid scattering and diffraction – inelastic

K. Ohtani, H. Doshita, M. Kohama, Y. Takamine, K. Asao, S. Tanaka, M. Kamada and A. Namiki, Physisorption lifetimes of Cl_2 on the Si(100) surfaces adsorbed with Cs and Cl 414 (1998) 85

Photoelectron spectroscopy

C. Puglia, P. Bennich, J. Hasselström, C. Ribbing, P.A. Brühwiler, A. Nilsson, Z.Y. Li and N. Mårtensson, Core level spectroscopy study of N_2 adsorbed on (2 × 2)K/graphite 414 (1998) 118
A. Barbier, R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt$_{1-x}$–Co$_x$)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170
A. Rettenberger and R. Haight, Electron spectroscopy and dynamics on the Ge(111):As 1 × 1 surface 414 (1998) 197
J.J. Paggel, G. Neuhold, H. Haak and K. Horn, Growth morphology and electronic structure of Na films on Si(111)-(7 × 7) and Si(111)-Na(3 × 1) 414 (1998) 221

Angle resolved photoemission

A. Goldmann, R. Matzdorf and F. Theilmann, Experimental hot-electron and photohole lifetimes at metal surfaces – what do we know? 414 (1998) L932

Soft X-ray photoelectron spectroscopy (using synchrotron radiation)

J.J. Paggel, G. Neuhold, H. Haak and K. Horn, Growth morphology and electronic structure of Na films on Si(111)-(7 × 7) and Si(111)-Na(3 × 1) 414 (1998) 221
T. van Gemmeren, L. Lottermoser, G. Falkenberg, O. Bunk, R.L. Johnson, R. Feidenhans'l and M. Nielsen, Growth morphology and structure of bismuth thin films on GaSb(110) 414 (1998) 254
M.L. Shek, Observations regarding a c(4 × 4)C–Si(100) surface 414 (1998) 353

Visible and ultraviolet photoelectron spectroscopy

W. Ranke and W. Weiss, Photoemission of ethylbenzene adsorbed on Pt(111) and on epitaxial films of FeO(111) and Fe_3O_4(111): electronic structure and isosteric heats of adsorption 414 (1998) 236

X-ray photoelectron spectroscopy

C. Puglia, P. Bennich, J. Hasselström, C. Ribbing, P.A. Brühwiler, A. Nilsson, Z.Y. Li and N. Mårtensson, Core level spectroscopy study of N_2 adsorbed on (2 × 2)K/graphite 414 (1998) 118

R.G. Jones, N.E. Abrams, G.J. Jackson, N.A. Booth, M.T. Butterfield, B.C.C. Cowie, D.P. Woodruff and M.D. Crapper, The structure of PF_3 adsorbed on Cu(111) 414 (1998) 396

Synchrotron radiation photoelectron spectroscopy

C. Puglia, P. Bennich, J. Hasselström, C. Ribbing, P.A. Brühwiler, A. Nilsson, Z.Y. Li and N. Mårtensson, Core level spectroscopy study of N_2 adsorbed on (2 × 2)K/graphite 414 (1998) 118

Photon absorption spectroscopy

C. Puglia, P. Bennich, J. Hasselström, C. Ribbing, P.A. Brühwiler, A. Nilsson, Z.Y. Li and N. Mårtensson, Core level spectroscopy study of N_2 adsorbed on (2 × 2)K/graphite 414 (1998) 118

Infrared absorption spectroscopy

R.K. Sharma, W.A. Brown and D.A. King, The adsorption of CO on Pt{110} over the temperature range from 90 to 300 K studied by RAIRS 414 (1998) 68

F. Vanolli, U. Heiz and W.-D. Schneider, Photochemistry of $Mn_2(CO)_{10}$ deposited on MgO thin films 414 (1998) 261

K.T. Queeney and C.M. Friend, Conversion of nitrosyls to dinitrosyls during NO adsorption on oxygen-modified Mo(110) 414 (1998) L957

Near edge extended X-ray absorption fine structure (NEXAFS)

S. Terada, T. Yokoyama, M. Sakano, A. Imanishi, Y. Kitajima, M. Kiguchi, Y. Okamoto and T. Ohta, Thiophene adsorption on Pd(111) and Pd(100) surfaces studied by total-reflection S K-edge X-ray absorption fine structure spectroscopy 414 (1998) 107

R.G. Jones, N.E. Abrams, G.J. Jackson, N.A. Booth, M.T. Butterfield, B.C.C. Cowie, D.P. Woodruff and M.D. Crapper, The structure of PF_3 adsorbed on Cu(111) 414 (1998) 396

Surface extended X-ray absorption fine structure (SEXAFS)

S. Terada, T. Yokoyama, M. Sakano, A. Imanishi, Y. Kitajima, M. Kiguchi, Y. Okamoto and T. Ohta, Thiophene adsorption on Pd(111) and Pd(100) surfaces studied by total-reflection S K-edge X-ray absorption fine structure spectroscopy 414 (1998) 107

X-ray absorption spectroscopy

C. Puglia, P. Bennich, J. Hasselström, C. Ribbing, P.A. Brühwiler, A. Nilsson, Z.Y. Li and N. Mårtensson, Core level spectroscopy study of N_2 adsorbed on (2 × 2)K/graphite 414 (1998) 118

Reflection spectroscopy

F. Pérez-Rodríguez, J. Récamier and W.L. Mochán, Direct photon–phonon coupling at (001) surfaces of zinc-blende structure crystals 414 (1998) 93

Scanning tunneling microscopy

N. Shimoni, O. Biham and O. Millo, Current-induced surface dislocations on thin gold films 414 (1998) L925

M. Li, W. Hebenstreit and U. Diebold, Oxygen-induced restructuring of the rutile TiO_2(110)(1 × 1) surface 414 (1998) L951

A.C.-T. Chan and G.-C. Wang, Roughness evolution of Si(111) by low-energy ion bombardment 414 (1998) 17

J. Malzbender, M. Przybylski, J. Giergiel and J. Kirschner, Epitaxial growth of Fe on Mo(110) studied by scanning tunneling microscopy 414 (1998) 187

J.J. Paggel, G. Neuhold, H. Haak and K. Horn, Growth morphology and electronic structure of Na films on Si(111)-(7 × 7) and Si(111)-Na(3 × 1) 414 (1998) 221

T. van Gemmeren, L. Lottermoser, G. Falkenberg, O. Bunk, R.L. Johnson, R. Feidenhans'l and M. Nielsen, Growth morphology and structure of bismuth thin films on GaSb(110) 414 (1998) 254

B. Ilge, G. Palasantzas, J. de Nijs and L.J. Geerligs, The temperature evolution of ultra-thin films in solid-phase reaction of Co with Si(111) studied by scanning tunneling microscopy 414 (1998) 279

M. Wassermeier, S. Kellermann, J. Behrend, L. Däweritz and K. Ploog, Submonolayer Si deposition at low temperatures on the GaAs(001)-(2 × 4) surface studied by scanning tunneling microscopy 414 (1998) 298

U. Stahl, D. Gador, A. Soukopp, R. Fink and E. Umbach, Coverage-dependent superstructures in chemisorbed NTCDA monolayers: a combined LEED and STM study 414 (1998) 423

Solid phase epitaxy

B. Ilge, G. Palasantzas, J. de Nijs and L.J. Geerligs, The temperature evolution of ultra-thin films in solid-phase reaction of Co with Si(111) studied by scanning tunneling microscopy 414 (1998) 279

Thermal desorption spectroscopy

A. Rochefort, R. Martel and P.H. McBreen, Interaction of bromocyclopropane with Cu(110) 414 (1998) 38

A. Horn, J. Biener and J. Küppers, A dimerization reaction induced by hydrogen atoms: from $B(CH_3)_3$ adsorbed on C/Pt(100) to $B_2H_2(CH_3)_4$ 414 (1998) 290

M.R. Voss, H. Busse and B.E. Koel, Adsorption of thermal D atoms on Sn/Pt(111) surface alloys 414 (1998) 330

U. Stahl, D. Gador, A. Soukopp, R. Fink and E. Umbach, Coverage-dependent superstructures in chemisorbed NTCDA monolayers: a combined LEED and STM study 414 (1998) 423

Work function measurements

W. Ranke and W. Weiss, Photoemission of ethylbenzene adsorbed on Pt(111) and on epitaxial films of FeO(111) and Fe_3O_4(111): electronic structure and isosteric heats of adsorption 414 (1998) 236

X-ray scattering, diffraction, and reflection

S.A. de Vries, W.J. Huisman, P. Goedtkindt, M.J. Zwanenburg, S.L. Bennett, I.K. Robinson and E. Vlieg, Surface atomic structure of the $(\sqrt{3}\times\sqrt{3})$R30°-Sb reconstructions of Ag(111) and Cu(111) 414 (1998) 159

T. van Gemmeren, L. Lottermoser, G. Falkenberg, O. Bunk, R.L. Johnson, R. Feidenhans'l and M. Nielsen, Growth morphology and structure of bismuth thin films on GaSb(110) 414 (1998) 254

R.G. Jones, N.E. Abrams, G.J. Jackson, N.A. Booth, M.T. Butterfield, B.C.C. Cowie, D.P. Woodruff and M.D. Crapper, The structure of PF_3 adsorbed on Cu(111) 414 (1998) 396

PHENOMENA

Adsorption kinetics

Yu.E. Lozovik and A.M. Popov, Theory, simulation and nanotechnological applications of adsorption on a surface with defects 414 (1998) 57

W. Ranke and W. Weiss, Photoemission of ethylbenzene adsorbed on Pt(111) and on epitaxial films of FeO(111) and Fe_3O_4(111): electronic structure and isosteric heats of adsorption 414 (1998) 236

T. Ali, A.V. Walker, B. Klötzer and D.A. King, A molecular beam study of the H_2-induced lifting of the Ir{100}-(1 × 5) reconstruction 414 (1998) 304

U. Stahl, D. Gador, A. Soukopp, R. Fink and E. Umbach, Coverage-dependent superstructures in chemisorbed NTCDA monolayers: a combined LEED and STM study 414 (1998) 423

Catalysis

K.T. Queeney and C.M. Friend, Conversion of nitrosyls to dinitrosyls during NO adsorption on oxygen-modified Mo(110) 414 (1998) L957

Chemisorption

S. Ustaze, S. Lacombe, L. Guillemot, V.A. Esaulov and M. Canepa, Electron transfer on oxygen-covered Ag(110) and Al(111) surfaces: work function versus local electronic effects 414 (1998) L938

E.S. Altshuler, D.L. Mills and R.B. Gerber, Solid and liquid-like phases of chemisorbed hydrogen monolayers on bcc metal surfaces: structure, dynamics and order–disorder transition 414 (1998) 1

A. Rochefort, R. Martel and P.H. McBreen, Interaction of bromocyclopropane with Cu(110) 414 (1998) 38

R.K. Sharma, W.A. Brown and D.A. King, The adsorption of CO on Pt{110} over the temperature range from 90 to 300 K studied by RAIRS 414 (1998) 68

S. Terada, T. Yokoyama, M. Sakano, A. Imanishi, Y. Kitajima, M. Kiguchi, Y. Okamoto and T. Ohta, Thiophene adsorption on Pd(111) and Pd(100) surfaces studied by total-reflection S K-edge X-ray absorption fine structure spectroscopy 414 (1998) 107

W. Ranke and W. Weiss, Photoemission of ethylbenzene adsorbed on Pt(111) and on epitaxial films of FeO(111) and Fe_3O_4(111): electronic structure and isosteric heats of adsorption 414 (1998) 236

B. Berenbak, D.A. Butler, B. Riedmüller, D.C. Papageorgopoulos, S. Stolte and A.W. Kleyn, Sticking probability measurement in a reactive system 414 (1998) 271

K.T. Queeney and C.M. Friend, Conversion of nitrosyls to dinitrosyls during NO adsorption on oxygen-modified Mo(110) 414 (1998) L957

J.J. Mortensen, B. Hammer and J.K. Nørskov, A theoretical study of adsorbate–adsorbate interactions on Ru(0001) 414 (1998) 315

M.R. Voss, H. Busse and B.E. Koel, Adsorption of thermal D atoms on Sn/Pt(111) surface alloys 414 (1998) 330

I. Rickardsson, L. Jönsson and C. Nyberg, Influence of surface topology on NO adsorption: NO on Ni(100) and Ni(510) 414 (1998) 389

U. Stahl, D. Gador, A. Soukopp, R. Fink and E. Umbach, Coverage-dependent superstructures in chemisorbed NTCDA monolayers: a combined LEED and STM study 414 (1998) 423

Diffusion and migration

A. Barbier, R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt_{1-x}–Co_x)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170

Epitaxy

A. Barbier, R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt_{1-x}–Co_x)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170

J. Malzbender, M. Przybylski, J. Giergiel and J. Kirschner, Epitaxial growth of Fe on Mo(110) studied by scanning tunneling microscopy 414 (1998) 187

T. Nawrath, H. Fritzsche and H. Maletta, Growth modes of vanadium and iron on V(110) single crystals 414 (1998) 209

B. Ilge, G. Palasantzas, J. de Nijs and L.J. Geerligs, The temperature evolution of ultra-thin films in solid-phase reaction of Co with Si(111) studied by scanning tunneling microscopy 414 (1998) 279

U. Stahl, D. Gador, A. Soukopp, R. Fink and E. Umbach, Coverage-dependent superstructures in chemisorbed NTCDA monolayers: a combined LEED and STM study 414 (1998) 423

Etching

R. Plass, J. Feller and M. Gajdardziska-Josifovska, Morphology of MgO(111) surfaces: artifacts associated with the faceting of polar oxide surfaces into neutral surfaces 414 (1998) 26

Faceting

R. Plass, J. Feller and M. Gajdardziska-Josifovska, Morphology of MgO(111) surfaces: artifacts associated with the faceting of polar oxide surfaces into neutral surfaces 414 (1998) 26

J.C. Bouilliard and M.P. Sotto, On the relations between the surface structures and the stability of complex faces 414 (1998) 131

Growth

A. Barbier, R. Belkhou, P. Ohresser, V. Da Costa, C. Guillot, B. Carrière and J.P. Deville, Structural and chemical investigation of epitaxial Pt/Co(10$\bar{1}$0) interfaces and of metastable Pt/(Pt_{1-x}–Co_x)/Co(10$\bar{1}$0) surface alloys 414 (1998) 170

B. Ilge, G. Palasantzas, J. de Nijs and L.J. Geerligs, The temperature evolution of ultra-thin films in solid-phase reaction of Co with Si(111) studied by scanning tunneling microscopy 414 (1998) 279

M. Blanc, K. Kuhnke, V. Marsico and K. Kern, Probing step decoration by grazing-incidence helium scattering 414 (1998) L964

Light scattering

F. Pérez-Rodríguez, J. Récamier and W.L. Mochán, Direct photon–phonon coupling at (001) surfaces of zinc-blende structure crystals 414 (1998) 93

Magnetic phenomena (cyclotron resonance, phase transitions, etc.)

S. Lapinskas, E.E. Tornau, V.E. Zubkus and A. Rosengren, Diffusion of adatoms. Comparison of the path probability and Monte Carlo method for H/Fe(110) 414 (1998) 44

Nucleation

J. Malzbender, M. Przybylski, J. Giergiel and J. Kirschner, Epitaxial growth of Fe on Mo(110) studied by scanning tunneling microscopy 414 (1998) 187

Y.-L. Lee, W.-S. Chou and L.-H. Chen, The adsorption and nucleation of water vapor on an insoluble spherical solid particle 414 (1998) 363

Oxidation

S. Ustaze, S. Lacombe, L. Guillemot, V.A. Esaulov and M. Canepa, Electron transfer on oxygen-covered Ag(110) and Al(111) surfaces: work function versus local electronic effects 414 (1998) L938

M. Li, W. Hebenstreit and U. Diebold, Oxygen-induced restructuring of the rutile TiO_2(110)(1 × 1) surface 414 (1998) L951

Photochemistry

F. Vanolli, U. Heiz and W.-D. Schneider, Photochemistry of $Mn_2(CO)_{10}$ deposited on MgO thin films 414 (1998) 261

Physical adsorption

W. Ranke and W. Weiss, Photoemission of ethylbenzene adsorbed on Pt(111) and on epitaxial films of FeO(111) and Fe_3O_4(111): electronic structure and isosteric heats of adsorption 414 (1998) 236

Sputtering

R. Souda, E. Asari, H. Kawanowa, S. Otani and T. Tanaka, Low energy He^+ ion scattering from HfB_2(0001), TaB_2(0001), WB_2(0001), YB_4(001), and YB_{66}(001) surfaces 414 (1998) 77

Sticking

B. Berenbak, D.A. Butler, B. Riedmüller, D.C. Papageorgopoulos, S. Stolte and A.W. Kleyn, Sticking probability measurement in a reactive system 414 (1998) 271

M.R. Voss, H. Busse and B.E. Koel, Adsorption of thermal D atoms on Sn/Pt(111) surface alloys 414 (1998) 330

Surface chemical reaction

A. Horn, J. Biener and J. Küppers, A dimerization reaction induced by hydrogen atoms: from $B(CH_3)_3$ adsorbed on C/Pt(100) to $B_2H_2(CH_3)_4$ 414 (1998) 290

K.T. Queeney and C.M. Friend, Conversion of nitrosyls to dinitrosyls during NO adsorption on oxygen-modified Mo(110) 414 (1998) L957

Surface diffusion

S. Lapinskas, E.E. Tornau, V.E. Zubkus and A. Rosengren, Diffusion of adatoms. Comparison of the path probability and Monte Carlo method for H/Fe(110) 414 (1998) 44

J. Malzbender, M. Przybylski, J. Giergiel and J. Kirschner, Epitaxial growth of Fe on Mo(110) studied by scanning tunneling microscopy 414 (1998) 187

K.R. Brown and D.A. Bonnell, Cation segregation to yttrium aluminum garnet (111) surfaces 414 (1998) 341

Surface electronic phenomena (work function, surface potential, surface states, etc.)

A. Goldmann, R. Matzdorf and F. Theilmann, Experimental hot-electron and photohole lifetimes at metal surfaces – what do we know? 414 (1998) L932

A. Rettenberger and R. Haight, Electron spectroscopy and dynamics on the Ge(111):As 1 × 1 surface 414 (1998) 197

Surface relaxation and reconstruction

R. Plass, J. Feller and M. Gajdardziska-Josifovska, Morphology of MgO(111) surfaces: artifacts associated with the faceting of polar oxide surfaces into neutral surfaces 414 (1998) 26

R.K. Sharma, W.A. Brown and D.A. King, The adsorption of CO on Pt{110} over the temperature range from 90 to 300 K studied by RAIRS 414 (1998) 68

M. Wassermeier, S. Kellermann, J. Behrend, L. Däweritz and K. Ploog, Submonolayer Si deposition at low temperatures on the GaAs(001)-(2 × 4) surface studied by scanning tunneling microscopy 414 (1998) 298

T. Ali, A.V. Walker, B. Klötzer and D.A. King, A molecular beam study of the H_2-induced lifting of the Ir{100}-(1 × 5) reconstruction 414 (1998) 304

M.Yu. Smirnov, D. Zemlyanov, V.V. Gorodetskii and E.I. Vovk, Formation of mixed (NO_{ads} + CO_{ads})/(1 × 1) islands on the Pt(100)-(hex) surface 414 (1998) 409

Surface roughening

M. Li, W. Hebenstreit and U. Diebold, Oxygen-induced restructuring of the rutile $TiO_2(110)(1 \times 1)$ surface 414 (1998) L951

A.C.-T. Chan and G.-C. Wang, Roughness evolution of Si(111) by low-energy ion bombardment 414 (1998) 17

Surface segregation

M. Li, W. Hebenstreit and U. Diebold, Oxygen-induced restructuring of the rutile $TiO_2(110)(1 \times 1)$ surface 414 (1998) L951

R. Souda, E. Asari, H. Kawanowa, S. Otani and T. Tanaka, Low energy He^+ ion scattering from $HfB_2(0001)$, $TaB_2(0001)$, $WB_2(0001)$, $YB_4(001)$, and $YB_{66}(001)$ surfaces 414 (1998) 77

K.R. Brown and D.A. Bonnell, Cation segregation to yttrium aluminum garnet (111) surfaces 414 (1998) 341

Surface stress

J. Malzbender, M. Przybylski, J. Giergiel and J. Kirschner, Epitaxial growth of Fe on Mo(110) studied by scanning tunneling microscopy 414 (1998) 187

Surface structure, morphology, roughness, and topography

N.G. Park, Y.W. Kim, W.S. Cho, J.Y. Kim, D.S. Choi, K. Jeong, K.H. Chae and C.N. Whang, Atomic structure of two-dimensional Ag layer grown on Si(001)-(2 × 1) at room temperature 414 (1998) L945

A.C.-T. Chan and G.-C. Wang, Roughness evolution of Si(111) by low-energy ion bombardment 414 (1998) 17

R. Plass, J. Feller and M. Gajdardziska-Josifovska, Morphology of MgO(111) surfaces: artifacts associated with the faceting of polar oxide surfaces into neutral surfaces 414 (1998) 26

R. Souda, E. Asari, H. Kawanowa, S. Otani and T. Tanaka, Low energy He^+ ion scattering from $HfB_2(0001)$, $TaB_2(0001)$, $WB_2(0001)$, $YB_4(001)$, and $YB_{66}(001)$ surfaces 414 (1998) 77

S. Terada, T. Yokoyama, M. Sakano, A. Imanishi, Y. Kitajima, M. Kiguchi, Y. Okamoto and T. Ohta, Thiophene adsorption on Pd(111) and Pd(100) surfaces studied by total-reflection S K-edge X-ray absorption fine structure spectroscopy 414 (1998) 107

J.C. Bouilliard and M.P. Sotto, On the relations between the surface structures and the stability of complex faces 414 (1998) 131

S.A. de Vries, W.J. Huisman, P. Goedtkindt, M.J. Zwanenburg, S.L. Bennett, I.K. Robinson and E. Vlieg, Surface atomic structure of the $(\sqrt{3} \times \sqrt{3})R30°$-Sb reconstructions of Ag(111) and Cu(111) 414 (1998) 159

T. Nawrath, H. Fritzsche and H. Maletta, Growth modes of vanadium and iron on V(110) single crystals 414 (1998) 209

T. van Gemmeren, L. Lottermoser, G. Falkenberg, O. Bunk, R.L. Johnson, R. Feidenhans'l and M. Nielsen, Growth morphology and structure of bismuth thin films on GaSb(110) 414 (1998) 254

R.G. Jones, N.E. Abrams, G.J. Jackson, N.A. Booth, M.T. Butterfield, B.C.C. Cowie, D.P. Woodruff and M.D. Crapper, The structure of PF_3 adsorbed on Cu(111) 414 (1998) 396

Surface thermodynamics (including phase transitions)

N. Shimoni, O. Biham and O. Millo, Current-induced surface dislocations on thin gold films 414 (1998) L925

M. Li, W. Hebenstreit and U. Diebold, Oxygen-induced restructuring of the rutile $TiO_2(110)(1 \times 1)$ surface 414 (1998) L951

Surface waves

F. Pérez-Rodríguez, J. Récamier and W.L. Mochán, Direct photon–phonon coupling at (001) surfaces of zinc-blende structure crystals 414 (1998) 93

Phonons

F. Pérez-Rodríguez, J. Récamier and W.L. Mochán, Direct photon–phonon coupling at (001) surfaces of zinc-blende structure crystals 414 (1998) 93

Tunneling

S. Ustaze, S. Lacombe, L. Guillemot, V.A. Esaulov and M. Canepa, Electron transfer on oxygen-covered Ag(110) and Al(111) surfaces: work function versus local electronic effects 414 (1998) L938

Vibrations of adsorbed molecules

A. Rochefort, R. Martel and P.H. McBreen, Interaction of bromocyclopropane with Cu(110) 414 (1998) 38

I. Rickardsson, L. Jönsson and C. Nyberg, Influence of surface topology on NO adsorption: NO on Ni(100) and Ni(510) 414 (1998) 389

Wetting

J. Malzbender, M. Przybylski, J. Giergiel and J. Kirschner, Epitaxial growth of Fe on Mo(110) studied by scanning tunneling microscopy 414 (1998) 187